PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No.: LADRA

In re Application of:	
UWE LADRA & ELMAR SCHÄRERS	
Filed: Simultaneously Herewith)
For: CONTROL METHOD FOR JERK-LIMITED))
SPEED CONTROL OF A MOVABLE)
MACHINE ELEMENT OF A NUMERICALLY)
CONTROLLED INDUSTRIAL)
PROCESSING MACHINE)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 Express Mail mailing label number: EV 375169635 US Date of Deposit: April 2, 2004

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450".

[Name of person mailing paper px fee]

[Signature]

SIR:

In accordance with 37 C.F.R. 1.56, applicant wishes to call the attention of the Examiner to the following references A) which is cited in the instant specification and references B) to D) which were cited in a German Office Action issued by the German Patent Office with regard to the corresponding German patent application No. 103 15 525.2. Applicant does not admit that any of the cited documents constitutes prior art against the pending application.

	Country:	Patent or Appl. No:	Patentee or Applicant:	Issue or Filing Date:
A)	Germany	DE 102 00 680 A1	Siemens AG	08-07-2003
B)	Germany	DE 100 63 722 A1	Siemens AG	07-11-2002
C)	Germany	DE 101 18 477 A1	Seiko Epson	12-06-2001
D)	Europe	EP 0 685 779 A1	Toyota J.	12-06-1995

Copies of these references are submitted herewith along with form PTO-1449. The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

- [X] This Information Disclosure Statement is filed within three months of the filing date of a national application other than a continued prosecution application under 1.53(d), so that no fee under 37 C.F.R. §1.97 is due.
- [] This Information Disclosure Statement is filed within three months of the date of entry of the national stage as set forth in 1.491 in an international application, so that no fee under 37 C.F.R. §1.97 is due.
- [] This Information Disclosure Statement is filed before the mailing of a first Office Action on the merits, so that no fee under 37 C.F.R. §1.97 is due.
- [] This Information Disclosure Statement is filed before the mailing of a first Office Action after the filing of a request for continued examination under §1.114, so that no fee under 37 C.F.R. §1.97 is due.
- [] This Information Disclosure Statement is filed after the issuance of a first office but before issuance of a final action under §1.113, or a notice of allowance under §1.311.

[] This Information Disclosure Statement is submitted after the mailing of a final action or a notice of allowance, but before payment of the issue fee.[] The undersigned submits the following statement requesting consideration of this statement:

The undersigned hereby states:

- [] That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement;
- [] That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.
- [] The fee of \$180.00 set forth in 1.17(p).
- [] The Commissioner is hereby authorized to charge the fee as set forth in 1.17(p), and any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.
- [X] The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

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In addition, applicant notes with respect to any information that is not in

English language as follows:

Reference B) relates to dampen as effectively as possible a critical resonant

frequency (fres) of the axes of a moving machine element with the aid of a jerk

limitation. Damping in the case of a desired frequency is achieved when the longest

possible time (TrLim), which can be traveled with a maximum permissible jerk (rLim),

is selected such that 1/TrLim coincides with the lowest natural frequency (fres) of the

participating axes. The path dynamics are adapted by virtue of the fact that the

TrLim=aMax/rLim yielded by the prescribed dynamics limiting values is varied by

reducing the maximum jerk (rLim) such that damping results for the lowest natural

frequency (fres) of the participating axes.

Reference C) describes an acceleration and deceleration curve formation

device (1) and a servomotor control device (4) to generate an acceleration-

deceleration curve to determine the maximum speed and maximum acceleration that

can be attained for a minimum amount of movement.

The above-identified application discloses and claims an invention patentable

over this prior art. Entry of the references above set forth into the file of the above

application is believed to be in order and is respectfully requested.

Respectfully submitted

By:

Henry M. Feiereisen Agent for Applicant

Rég. No. 31,084

Date: April 2, 2004

350 Fifth Avenue, Suite 4714

New York, N.Y. 10118

(212) 244-5500

HMFWS:af

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Form PTO-1449 U.S. Department of Commerce							e				
Patent and Trademark Office INFORMATION DISCLOSURE CITATION											
Attorney's Docket No.			Applicant				Appl. No.				
LADRA			UWE LADRA et al.								
Filing Date			Group			Examiner					
U.S. PATENT DOCUMENTS											
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FOREIGN PATENT DOCUMENTS											
	Document Number		Date		Country Class		las	ss Subc		ass	Translation
	DE 102 00 680 A1 DE 100 63 722 A1 DE 101 18 477 A1		1 07-11-2002 1 12-06-2001		Germany						no
					Germany						no
					Germany						no
·	EP 0 685 779 A1		12-06-1995		Europe						yes
											
	OTHER I	DOC	UMEN	TS (Including Autho	r, Title, D	ate	, Pertir	nent Page:	s, Etc.)	
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^{*}Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.